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TITLE: TRACK COVER

BACKGROUND OF THE INVENTION

This utility patent application is based on the provisional patent application (Serial No. 60/462,639) filed on April 14, 2003.

1. Field of the Invention:

This invention relates to track-type work vehicles and, more particularly, to an apparatus for covering the tracks on a track driven work construction vehicle as the vehicle is transported on a trailer.

2. Description of the Related Art:

Earthmoving and construction vehicles that utilize endless chain tracks to support and propel the vehicle on soil are often moved from one worksite to another on a trailer or flatbed truck. When transporting the construction vehicle on roadways, dirt, gravel, and other debris stuck on the vehicle's tracks may be dislodged and dropped onto the roadway, potentially causing serious driving hazards and damage to other vehicles.

DESCRIPTION OF THE DRAWINGS

Fig. 1 is a side elevational view of a track vehicle loaded onto a trailer with the track cover shown attached to a track.

Fig. 2 is a perspective view of the track cover attached to cover a track.

Fig. 3 is a top plan view of the track cover attached to a track.

Fig. 4 is a side elevational view of the track cover.

Fig. 5 is a top plan view of the track cover showing the inside edge of the mat attached to the lower edge of the body.

Fig. 6 is a sectional side elevational view of the mat and the belt and body.

Fig. 7 is a sectional side elevational view of the D-rings and belt attached to the upper edge of the body and extended over the track.

Fig. 8 is a side elevational view of the second embodiment of the track cover.

DESCRIPTION OF THE PREFERRED EMBODIMENT(S)

Referring to the accompanying Figures, there is shown and described a track cover 10 designed to be quickly and easily installed on a wide range of construction vehicles 90 with the tracks 92 to prevent dirt, gravel, and other debris, generally referenced as 100, from being thrown from the track 92 onto the roadway 67 while being transported behind a hauling vehicle 90. The track cover 10 includes a flexible, elongated body 20 designed to fit closely over the side opening 93 and exposed top and end surfaces 95, 96 of the track 92. Attached to the lower edge 24 of the elongated body 20 is a durable mat 40 that, during use, is placed over the path on the trailer bed where a track 92 is driven, as shown in Fig. 5. Elastic cords 60 attached at one end to the inside edge of the track 92, extend over the track 92 and connect

1 at one end to the perimeter edges on the elongated body 20 to hold the elongated body 20 in
2 place on the track 92, thereby, keeping dislodged gravel, mud and debris 100 from falling
3 into the roadway 67.

4 In the preferred embodiment, the elongated body 20 includes a horizontal upper
5 section 21, and a vertical middle section 25. As shown in Fig. 3, the upper section 21
6 includes a straight perimeter edge 22 that is integrally attached to the opposite curved side
7 sections 26, 27. The upper section 21 is sufficient in width and length to extend 6 to 12
8 inches over the top surface 95 of the track 92. The middle section 25 is sufficient in length to
9 partially wrap around the front and rear surfaces of the track 92 and to completely cover the
10 side opening 93 on the track 92. Formed on the lower edge 28 of the middle section 25 is a
11 cut out area 29 designed to receive the inside edge 42 of the mat 40. In the embodiment
12 shown in Figs 1-7, the upper and middle and side sections 21, 25, 26, 27 respectively, are
13 made of 18-ounce vinyl and measure approximately 13.5 feet by 3 feet (Length X Width).
14 The cut out area 29 measures approximately 11.3 feet by .5 feet (Length X Width).

15 Attached or sewn to the perimeter edges of the upper and middle, and side sections
16 21, 25, 26, 27 respectively, and to the lower edge 28 is a durable web belt 30 designed to
17 provide a durable edge that resists wear. In the preferred embodiment the web belt 30 is
18 made of flexible nylon and is approximately two inches wide.

19 As shown in Fig. 5, the mat 40 is attached along its inside edge 42 of the mat 40 by
20 rivets 45 which are evenly spaced apart along the inside edge 42. In the embodiment shown
21 in Fig. 1 - 5, the mat 40 measures approximately 11.2 feet by 2 feet (Length X Width) and is
22 made of heavy-duty rubber approximately 3/8 inch thick.

23 Evenly spaced apart along the perimeter edges of the upper and middle sections and

1 side sections 21, 25, 26, 27 respectively, is a plurality of D-rings 50. During use, elastic
2 cords 60 attach to the D-rings 50 and extend transversely over the upper and side sections 21,
3 26, 27 of the elongated body 20 to hold the track cover 10 in place on a track 92. Attached to
4 the opposite ends of the elastic cords 60 are hooks 64 that connect to the D-rings 50 and to
5 the inside edge 97 of the track 92. In the embodiment shown in Figs. 1, the elastic cords 60
6 measure approximately 12 inches when stretched.

7 Optional pleats 80 may be formed in the side sections 26, 27 of the elongated body 20
8 that enable the elongated body 20 to selectively conform around tracks having different
9 shapes and sizes. In the preferred embodiment the pleats 80 are triangular in shape and made
10 of durable elastic material. There are three pleats 80 evenly spaced apart and formed on each
11 side section 26, 27.

12 Fig. 8 shows a second embodiment of the track cover 10' that includes an elongated
13 body 20' designed to cover a track 92' with an elevated center axis 100. The elongated body
14 20' has a shape that matches the track 92'. The elongated body 20' also includes an optional
15 slot 55 designed to receive a structural member (not shown) that extends laterally from the
16 track 92'.

17 In use, two track covers are selected and longitudinally aligned and placed on
18 opposite sides of the trailer or flatbed. The two mats 40 are longitudinally aligned and placed
19 on opposite sides of the trailer or flatbed. The two elongated bodies 20 extend downward
20 over the sides of the trailer or truck. The track vehicle 90 is driven onto the trailer 75 or
21 flatbed, so that the two tracks 92 are located directly over the two mats 40. The weight of the
22 track vehicle 90 holds the mats 40 on the trailer 75 or flatbed. The two elongated bodies 20
23 are then pulled upward and extended over the side opening 93 and exposed top and end

1 surfaces 95, 96 of the tracks 92 and then secured by attaching the hooks 64 of the elastic
2 cords 60 to the D-rings 50 and inside edge of the track 92.

3 When not in use, the track cover 10 can be folded into a compact configuration and
4 stored on the trailer or truck for later use.

5 In compliance with the statute, the invention described herein has been described in
6 language more or less specific as to structural features. It should be understood, however,
7 that the invention is not limited to the specific features shown, since the means and
8 construction shown is comprised only of the preferred embodiments for putting the invention
9 into effect. The invention is therefore claimed in any of its forms or modifications within the
10 legitimate and valid scope of the amended claims, appropriately interpreted in accordance
11 with the doctrine of equivalents.